

ATTACHMENT A.

Virginia's Draft Chesapeake Bay 2020-2021 Programmatic Milestones

A Message from Secretary of Natural Resources Matthew J. Strickler: *Virginia prepared the draft 2020-2021 Milestones and initiated public review and comment prior to Governor Northam's issuance of Executive Order #51 "Declaration of a State of Emergency Due to Novel Coronavirus (COVID-19)" on March 12, 2020. Circumstances have changed significantly since release of the draft milestones and still the full impact of COVID-19 on the Commonwealth will not be clear for some time. Therefore, I am directing the Chesapeake Bay TMDL interagency team to revisit the 2020-2021 Milestones in the fall to determine if revisions are necessary once there is clarity on the economic impacts of COVID-19.*

Milestone Number	Final Phase III WIP	Lead Agency & Supporting Agencies	Actions & Deliverables	Target Dates	Comments. Progress. Supporting Grant, if Applicable.
Agriculture - Key Ongoing Activities					
A1	p. 41	Department of Conservation and Recreation (DCR)	Incorporate changes to animal waste practices recommended by the Agricultural Best Management Practice Technical Advisory Committee (Ag BMP TAC) into cost share program.	Jul. 1, 2020	State Funds Proposed Board Action Spring 2020, for program year beginning Jul. 1, 2020.
A2	p. 42	DCR / Department of Environmental Quality (DEQ)	Work with Bay Program to adjust cover crop planting dates, incorporating climate change, for appropriate areas in Virginia.	Jan. 1, 2021	State Funds
A3	p. 42	DCR	Incorporate changes to riparian buffer best management practices (BMPs) recommended by the Ag BMP TAC that may increase the level of producer interest and participation.	Jul. 1, 2020	State Funds
A4	p. 42	DCR	Incorporate changes to livestock stream exclusion practices recommended by the Ag BMP TAC including those intended to add additional flexibility and increased likelihood of adoption by producers.	Jul. 1, 2020	State Funds Proposed Board Action Spring 2020 for program year beginning Jul. 1, 2020.

A5	p. 43	DCR	Require private sector Virginia-certified nutrient management planners who participate in Direct Pay to conduct Nutrient Management Plan verification.	Dec. 31, 2021	Chesapeake Bay Regulatory and Accountability Program (CBRAP)
A6		DCR	Conduct annual Agricultural Needs Assessment and report funding needs to Governor and Virginia General Assembly.	Nov. 1, 2020, Nov. 1, 2021	The annual Agricultural Needs Assessment is included in the annual Chesapeake Bay and Virginia Waters Clean Up Plan Report .
A7		Virginia Department of Agriculture and Consumer Services (VDACS)	Report BMPs installed to resolve founded Agricultural Stewardship Act (ASA) complaints.	Ongoing	Currently tracked in the ASA module of the Agriculture BMP Tracking Program.
Agriculture – WIP Chapter 7 Initiatives					
A8	WIP Initiative # 13	DCR	Conduct both cover crop and conservation tillage surveys in Chesapeake Bay watershed.	Dec. 31, 2021	Chesapeake Bay Implementation Grant (CBIG), Chesapeake Bay Regulatory and Accountability Program (CBRAP)
A9	WIP Initiative # 13	Office of the Secretary of Natural Resources (OSNR) in partnership with DEQ, DCR, VDACS, Virginia Department of Forestry (VDOP), Soil and Water Conservation	<p>Continue work of the Voluntary Agriculture BMP Task Force to evaluate effective approaches to document BMPs implemented without cost share.</p> <p>Draft work plan to conduct a survey of agriculture producers in the watershed seeking information on BMPs.</p> <p>Finalize work plan and project budget.</p>	<p>Ongoing</p> <p>Jan. 31, 2020</p> <p>Mar. 2020</p>	Farmer survey partners also include Virginia Farm Bureau Federation and Virginia Agribusiness Council.

		Districts (SWCDs), Virginia Cooperative Extension (VCE), Virginia Tech, U. S. Department of Agriculture - Natural Resources Conservation Service (NRCS), U.S. Environmental Protection Agency (EPA)	<p>Draft questions for farmer survey with experts and seek approval of final questionnaire from task force members.</p> <p>Initiate farmer survey, if approved by task force members.</p> <p>Conduct spot checks of approximately 10% of producers participating in the survey.</p> <p>Complete analysis of survey results.</p>	<p>Aug. 1, 2020</p> <p>Dec. 31, 2020</p> <p>Summer 2021</p> <p>Nov. 30, 2021</p>	
A10	WIP Initiative # 14	OSNR	<p>Interview partners agencies and organizations that assist farmers regarding opportunities to improve coordination.</p> <p>Draft language for joint letter of agreement between Secretaries of Natural Resources, Agriculture and Forestry, and Education and Virginia Association of Soil and Water Conservation Districts.</p> <p>Finalize language and obtain signatures.</p> <p>Review joint letter of agreement at agency and partner meetings and trainings.</p>	<p>Oct. 2020 – Mar. 2021</p> <p>Jun. 2021</p> <p>Dec.31, 2021</p>	Initiative will be done in partnership with VCE, DCR, VDOF, VDACS, Soil and Water Conservation Districts (SWCDs), NRCS, and U.S. Department of Agriculture - Farm Service Agency (FSA).
A11	WIP Initiative # 14	OSNR in partnership with Office of Agriculture and Forestry (OSAg&F), DCR	Conduct regular meetings with NRCS and FSA to enhance joint efforts and identify/resolve issues of concern.	Ongoing	
A12	WIP Initiative # 17	DCR	Implement recommendations of the Virginia Soil and Water Conservation Board Allocation Subcommittee to increase base technical assistance funding to SWCDs.	Jul. 1, 2020	State Funds State budget information can be found on the Virginia Legislative Information System website.

					Budget Action by the General Assembly will be followed by Board action prior to the beginning of next program year (Jul. 2020).
A13	WIP Initiative # 19	DCR	Direct increased cost share funding to key WIP III SWCDs.	Jul. 1, 2020	State Funds
A14	WIP Initiative # 20	DCR	Examine options and present to the Virginia Soil and Water Conservation Board an approach that would regionalize prioritization of BMPs in the agricultural BMP cost share program.	Seek approval from the Soil and Water Conservation Board by Dec. 1, 2021.	State Funds Develop a new methodology to integrate Phase 6.0 Chesapeake Bay Model BMP reductions based on position in the watershed into the Conservation Effectiveness Factor then reprogram the Ag BMP Tracking Module to automate it.
A15	WIP Initiative #20	DCR	Report Soil Conservation and Water Quality Plans to include all federal and state conservation plans associated with agricultural BMPs in lifespan.	Dec. 31, 2021	State and federal USDA funds and technical staffs
A16	WIP Initiative # 23	DCR	Conduct periodic review of Resource Management Plan (RMP) Program and recommend regulatory changes.	Jan. 1, 2021	CBRAP
A17	WIP Initiative # 24	DCR	Bundle all Resource Management Plan BMPs into one cost share contract.	Jul. 1, 2021	CBRAP, State Funds
A18	WIP Initiative # 25	DCR	Conduct periodic review of Nutrient Management regulations and recommend regulatory changes.	Dec. 31, 2021	CBIG
A19	WIP Initiative #26	OSNR	Pursue legislation to achieve goal of 85% implementation of nutrient management plans on cropland and to achieve goal of livestock exclusion from perennial streams in the Chesapeake Bay watershed.	Jul. 1, 2020	Virginia General Assembly 2020 session: House Bill 1422 and Senate Bill 704 Chesapeake Bay watershed

			<p>Pursuant to final legislation, convene Secretaries of Natural Resources and Agriculture and Forestry stakeholder advisory group to review annual progress toward the implementation of agriculture best management practices, develop a process to assist operators in developing nutrient management plans, and develop a plan for a stream exclusion program.</p> <p>Establish a portable stream fencing practice for inclusion in the Virginia Agricultural Best Management Practice Cost-Share Program.</p> <p>Establish method for identifying perennial streams.</p>	<p>Nov., 2020 Nov., 2021</p> <p>Jul. 1, 2021</p> <p>Dec. 31, 2020</p>	implementation plan initiatives.
A20	WIP Initiative # 27	DCR	Conduct a pilot study to help estimate the extent of perennial streams in Bay watershed excluded from livestock.	Feb. 1, 2020	CBRAP, State Funds
A21	WIP Initiative # 27	DCR	Monitor and report continued progress of livestock stream exclusion efforts with a goal of exclusion from all perennial streams. Monitor and report continued progress of nutrient management plan efforts with a goal of 85% implementation of nutrient management plans.	Dec. 1, 2020, Dec. 1, 2021	
A22	WIP Initiative # 28	DCR	Fund research study to determine practical end uses for horse manure.	Dec. 31, 2021	Pursue grant opportunities
A23	WIP Initiative # 29	DCR	Increase poultry litter transported to appropriate areas towards the year 2025 annual goal, through program outreach and marketing, and by increasing the number of eligible counties to receive litter subsidized by the DCR Poultry Litter Transport Program. Expanding by 14 localities, this program will now apply to 69 localities statewide. In counties within the Chesapeake Bay watershed, transfers will be tracked and applicable regular reporting requirements (DEQ) would apply.	Dec. 31, 2021	State Funds
A24	WIP Initiative # 30	DEQ	Improve poultry litter transport accounting.	Dec. 31, 2020	

A25	WIP Initiative #30	DEQ	<p>Reissue the Virginia Pollution Abatement Regulation and General Permit for Poultry Waste Management:</p> <p>Present proposed language to the State Water Control Board. This stage will include a 60-day comment period and at least one public hearing.</p> <p>Present final language to the State Water Control Board.</p> <p>Upon Board approval, publish the final regulation in the Virginia Register to become effective at least 30 days after publication.</p>	<p>Apr. 30, 2020</p> <p>Sept. 30, 2020</p> <p>Dec. 31, 2020</p>	A Technical Advisory Committee has met four times.
A26	WIP Initiative # 32	VDACS	Pilot long-term marketing plan to promote certain farm products grown on farms implementing a RMP. VDACS, in conjunction with DCR, will develop a marketing plan for products to be sold under a specific brand that identifies that the products were produced on an operation fully implementing a RMP. A recognizable logo will be developed for the products.	Dec. 31, 2020	
A27	WIP Initiative # 34	VDACS	VDACS will update the current Agriculture and Forestry Industries Development (AFID) program web page to promote the availability of the funds for projects involving operations such as oyster aquaculture or nurseries producing native plants for stormwater BMPs.	Dec. 31, 2020	
Wastewater & Septic - Key Ongoing Activities					
W1		DEQ	<p>Publish Notice of Intended Regulatory Action for reissuance of watershed general permit (9VAC25-820).</p> <p>Establish Technical Advisory Committee and developed proposed watershed general permit regulation for consideration by State Water Control Board.</p> <p>Reissue watershed general permit.</p>	<p>Mar. 31, 2020</p> <p>Mar. 31, 2021</p> <p>Dec. 31, 2021</p>	

W2	p. 8	DEQ	Continue implementation of septic BMPs to address local impairments within the Chesapeake Bay watershed in Section 319(h) and Water Quality Improvement Fund (WQIF) implementation project areas.	Dec. 31, 2021	
Wastewater & Septic – WIP Chapter 7 Initiatives					
W3	WIP Initiative # 45	DEQ	Conduct annual Water Quality Improvement Fund (WQIF) Requests Estimates Report and include findings in the annual Chesapeake Bay and Virginia Waters Clean Up Plan Report for the Governor and Virginia General Assembly.	Nov. 1, 2020,	The report link can be found on DEQ's Chesapeake Bay Program webpage .
W4	WIP Initiative #51	Virginia Department of Health (VDH)	Manage the Wastewater Infrastructure Workgroup.	Ongoing	Jul. 22, 2019: Joint letter of agreement creating the workgroup signed. Oct. 16, 2019: First workgroup meeting held.
W5	WIP Initiative # 52	DEQ	<p>Publish Notice of Intended Regulatory Action (NOIRA) to amend Water Quality Management Planning Regulation (9VAC25-720) to (1) include Chlorophyll-a based wasteload allocations for significant James River dischargers, (2) re-evaluate industrial significant wasteload allocations and (3) establish floating wasteload allocations for significant municipal dischargers.</p> <p>Establish Regulatory Advisory Panel and develop proposed regulatory amendments to 9VAC25-720 for consideration by State Water Control Board.</p> <p>Initiate stakeholders group to review wastewater loads and identify cost-effective options to achieve wastewater nutrient load levels with reasonable assurance consistence with the needs of the Phase III WIP.</p> <p>Present wastewater options report to General Assembly</p>	<p>Nov. 25, 2019</p> <p>July 1, 2020</p> <p>Dec. 1, 2020</p>	<p>NOIRA public comment period ended Feb. 19, 2020.</p> <p>Established April 16, 2020</p> <p>HB 30 (Conference Report) Budget Amendment 377 #6c https://budget.lis.virginia.gov/amendment/2020/1/HB30/Introduced/CR/377/6c/</p>

			Complete Amendments to 9VAC25-720.	Dec. 31, 2021	
W6	WIP Initiative # 53	DEQ	<p>Submit for executive review a Notice of Intended Regulatory Action to amend Sewage Collection and Treatment Regulations (9VAC25-790).</p> <p>Establish Regulatory Advisory Panel and develop Proposed Regulatory Amendments for consideration by State Water Control Board.</p>	<p>Jul. 1, 2021</p> <p>Dec. 31, 2021</p>	
W7	WIP Initiative #54	VDH	Pilot shifting oversight of the septic pump-out program from certain localities to the VDH.	Nov. 1, 2020	Jul. 2019: VDH meet with Planning District Commissions (PDCs) and DEQ. Anticipate interim report to General Assembly by Jan. 2020. Anticipate final report to General Assembly by Nov. 2020.
W8	WIP Initiative #55	VDH	Designate VDH as a state certifying authority and provide sales tax exemption for community systems serving 10 or more households that use total nitrogen (TN) reducing treatment systems.	Feb. 29, 2020	Mar. 18, 2019: HB 2811 became effective making VDH a certifying authority. Aug. 20, 2019: Draft policy to implement HB 2811 shared with onsite advisory committee. Anticipate completion of public comment process for policy/effective date in Feb. 2020.
W9	WIP Initiative # 56	VDH	VDH to establish by regulation TN limits for all OSS dispersing greater than 1,000 gallons per day (GPD), including Conventional OSS.	TBD	Update will be part of overall revisions to the Sewage Handling and Disposal Regulations. Anticipate initial workgroup meeting to

					revise regulations to begin prior to the end of 2019.
Developed Lands (Regulated and Unregulated Urban) – Key Ongoing Activities					
D1		DEQ	Complete review of Phase II MS4 TMDL Action Plans.	May 30, 2020	
D2		DEQ	Continue implementation of Virginia Stormwater Management Program and Virginia Erosion and Sediment Control Program.	Ongoing	
D3		DEQ	Reissue Arlington MS4 Permit.	Jul. 30, 2020	
D4		DEQ	Reissue Prince William and Chesterfield MS4 Permits.	Dec. 31, 2020	
D5		DEQ	Reissue Fairfax and Henrico MS4 Permits.	Jun. 30, 2021	
D6		DEQ	Reissue Chesapeake, Hampton, Newport News, Norfolk, Portsmouth and Virginia Beach MS4 Permits.	Mar. 30, 2022	
D7	p. 154	DCR	Report on linear feet of verified tidal shoreline stabilized via DCR Shoreline Erosion Advisory Service Program.	Annual	State Funds
D8		VDOF	Forest Planting – VDOF will continue to leverage partnerships and collaborative efforts to establish afforestation in urban areas. Continue to seek stable general fund budget support. Provide partners with tree planting tracking program to enhance recording. Develop Green Infrastructure planning efforts and Urban Forest Management Plans.	Dec. 31, 2021	Trees for Clean Water, VEE Middle James River Watershed grant, Chesapeake Bay Program, United States Forestry Service (USFS) Chesapeake Watershed Forestry Program
D9		VDACS	Utilize fertilizer tonnage reporting system data to report annual fertilizer sales to DEQ.	Ongoing	Reported annually in November.
D10		VDACS	Utilize annual fertilizer application data to report acres of non-agricultural lands under management by Certified Fertilizer Applicators (CFAs) and receiving fertilizer in accordance with Nutrient Management Standards and Criteria.	Ongoing	Reported annually in June.
Developed Lands (Regulated and Unregulated Urban) – WIP Chapter 7 Initiatives					

D11	WIP Initiative # 40	VCE / OSNR	Conduct expanded Healthy Virginia Lawns Program: 1) recruit at least one new Extension Unit office to adopt the Healthy Virginia Lawns program for implementation; 2) provide program support to existing Extension programs in Fairfax, Henrico, and Prince William counties with a goal of 20 % growth either by clients, plans, or acres under urban nutrient management or a combination of all three components; 3) encourage the use of summer interns in local Extension offices to promote best practices for proper lawn maintenance that encourages Bay-friendly or watershed-friendly practices; 4) report to DEQ the potential nutrient reductions for nitrogen, phosphorus, or sediment based on the number of acres of residential lawn being managed under a certified plan; and 5) develop a robust evaluation plan to capture short-term and mid-term impacts from Healthy Virginia Lawns clients.	Spring 2020	Utilize Chesapeake Bay Restoration Funds.
D12	WIP Initiative # 41	VCE / DCR	Implement an urban nutrient management pilot project to train youth, via the VCE 4-H Program, to make turf grass management recommendations for home owners.	Dec. 31, 2021	CBIG
D13	WIP Initiative # 42	VDACS / OSaG&F	Secured legislation to enhance existing lawn fertilizer contractor-applicator program. Effective Jul. 1, 2020. Amend 2 VAC 5-405, Regulations for the Application of Fertilizer to Nonagricultural Lands, to reflect regulatory changes required pursuant to Chapter 413 of the 2020 Acts of Assembly (SB 849): Consider additional amendments to this regulation to increase compliance.	Dec. 31, 2020	Virginia's General Assembly 2020 Session: Senate Bill 849 Lawn fertilizer; contractor-applicators..
D14	WIP Initiative #44	DEQ	Enhance marketing of funding opportunities for Non-MS4 localities. Incorporate marketing survey results into draft comprehensive marketing plan. Finalize comprehensive marketing plan. Implement marketing strategy for non-MS4 localities prior to the October 2020 Stormwater Local Assistance Fund (SLAF) solicitation.	Oct. 31, 2020	Overall goal: DEQ Clean Water Financing and Assistance Program development of comprehensive marketing plan to include enhanced outreach on SLAF use for non-MS4 stormwater

					projects. Marketing survey was completed Aug. 31, 2019.
D15	WIP Initiative # 45	DEQ	Conduct annual Stormwater Local Assistance Fund (SLAF) Requests Estimates Report and include findings in the annual Chesapeake Bay and Virginia Waters Clean Up Plan Report for the Governor and Virginia General Assembly.	Nov. 1, 2020, Nov. 1, 2021	The report link can be found on DEQ's Chesapeake Bay Program webpage .
D16	WIP Initiative # 47	DEQ	Establish Stakeholders Advisory Group and evaluate nutrient management planning under the Erosion & Sediment Control Regulations. Submit for executive review a Notice of Intended Regulatory Action to amend Erosion & Sediment Control Regulations (9VAC25-840). Establish Regulatory Advisory Panel and develop Proposed Regulatory Amendments for consideration by State Water Control Board if necessary.	Jan. 1, 2021 Jul. 1, 2021 Dec. 31, 2021	
D17	WIP Initiative # 48	DEQ	Establish Stakeholders Advisory Group and develop protocol for re-evaluating post-construction water quality design criteria requirements.	Jan. 1, 2021	
D18	WIP Initiative # 49	DEQ	Perform a limited review of approximately 25 Virginia Stormwater Management Programs under the federally-delegated MS4 permitting and compliance program.	Sept. 30, 2020, Sept. 30, 2021	DEQ to continue performing MS4 program audits.
D19	WIP Initiative # 50	DEQ	Provide proposed amendments to Guidance Memo No. 15-2005, Chesapeake Bay TMDL Special Condition Guidance for MS4s to group of interested permittees for review and comment. Public notice and finalize amendment to Guidance Memo No. 15-2005 Chesapeake Bay TMDL Special Condition Guidance for MS4s.	Apr. 1, 2020 Jul. 31, 2020	

D20	WIP Initiative # 50	DEQ	Review Urban Tree Canopy expert panel report for potential inclusion of Tree Planting on Virginia Stormwater BMP Clearinghouse (i.e., potential BMP for use under the VSMP). Update Virginia Stormwater BMP Clearinghouse to include Tree Planting, if applicable.	Nov. 1, 2020	Report to be published on DEQ's website by Nov. 1, 2020 in accordance with House Bill 520 (2020).
D21		DCR	Renew urban nutrient management plans on at least 5,000 acres of golf courses plans due to expire through 2021.	Dec. 31, 2021	CBIG
D22		VMRC	Update standards/guidelines for living shorelines to implement Senate Bill 776, " <i>D. The Commission shall permit only living shoreline approaches to shoreline management unless the best available science shows that such approaches are not suitable. If the best available science shows that a living shoreline approach is not suitable, the Commission shall require the applicant to incorporate, to the maximum extent possible, elements of living shoreline approaches into permitted projects.</i> " (§28.2-104.1(D))	Jul. 1, 2020 – Dec. 31, 2020	Living Shoreline Legislation https://lis.virginia.gov/cgi-bin/legp604.exe?201+ful+SB776ER
Forestry – Key Ongoing Activities					
F1	p. 120	VDOF	Forest Buffer – VDOF will continue to collaborate with partners and provide technical assistance in NRCS, USDA and SWCD districts in order to achieve riparian forest buffer project goals. It will also use grant programs such as the Virginia Environmental Endowment (VEE) Middle James Grant program to capture projects where traditional cost share programs do not attract landowner participation.	2020-2021	VEE Middle James Grant, WQIF, CREP, EQIP, USDA
F2	p. 120	VDOF	Forest Buffer (with exclusion fencing) – Continue to coordinate and develop cost share programs with partner agencies to coordinate efforts and provide technical assistance on stream side exclusion practices.	2020-2021	VEE Middle James Grant, WQIF, CREP, EQIP, USDA, NRCS, DCR
F3	p. 121	VDOF	Tree Planting – VDOF will continue to utilize Reforestation of Timberland funding, Ag. BMP, Environmental Quality Incentives Program (EQIP), Conservation Reserve Enhancement Program (CREP), NRCS and other cost share programs to impact tree planting projects in the watershed, including outreach efforts and technical assistance to provide a dedicated	2020-2021	VEE Middle James Grant, WQIF, CREP, EQIP, Reforestation of Timberlands, NRCS, DCR

			focus on program improvements, expansion and implementation.		
F4	p. 121	VDOF	Forest Harvesting Practices – VDOF will continue to provide technical assistance to USDA conservation agencies, SWCDs and landowners for afforestation, reforestation and implementation of riparian forest buffers; continue monitoring and enforcement of the Silvicultural Water Quality Enforcement program; and continuation of logger education programs through the SHARP logger and Sustainable Forest Initiative and training programs.	2020-2021	WQIF
F5		VDOF	Urban Tree Canopy Program – Pursue consistent General Fund support to expand capacity of Urban and Community Forestry Program, utilize Urban Tree Canopy Analysis data, and support tree canopy analysis in localities.	Dec. 31, 2021	USFS, Trees for Clean Water, Tree City, Tree Campus USA
F6		VDOF	Improve technical assistance, collaboration and oversight of stream protection projects. Increase riparian forest buffers and urban tree canopy.	Dec. 31, 2021	
Forestry – WIP Chapter 7 Initiatives					
F7	WIP Initiative # 35	VDOF	Implement VDOFs Healthy Watershed Initiative recommendations to pilot proof of concept activities with a locality or localities within the Rappahannock River Basin study area designed to aggregate and represent landowners interested in securing carbon credits in the voluntary and/or regulatory carbon markets for retaining their forestland. Work with pilot locality(ies) to design and implement an economic development authority (EDA) mechanism as authorized by the General Assembly in its 2019 session to provide EDAs with such authority. . Establish contractual framework and locality point of contact to ensure that the legislative change regarding the EDA success is properly implemented. Success metrics will be number of contracts executed, number of acres enrolled in carbon credit markets and development of EDA.	Dec. 31, 2021	HB 2485 to amend and reenact § <u>15.2-4901</u> of the Code of Virginia, relating to industrial development authorities; legislative intent. CBP, U.S Endowment for Forests and Communities, Chesapeake Bay Trust

F8	WIP Initiative # 35	VDOF	Implement VDOFs Healthy Watershed Initiative – Create policy and financial infrastructure needed to facilitate forest and agricultural land conservation and retention at a landscape scale on a long-term basis. Metrics: Securing term length carbon credit contracts for forestland owners within the voluntary carbon credit market, realized market access and number of acres enrolled in the carbon sequestration market will measure success.	Dec. 31, 2021	Chesapeake Bay Program (CBP), U.S. Endowment for Forests and Communities, Chesapeake Bay Trust, Rappahannock River Basin Commission
F9	WIP Initiative # 35, 36, & 37	VDOF	Forest Buffer – VDOF will pursue a Watershed Coordinator position to increase implementation of programs and strategic initiatives. Continue to utilize existing programs and partnerships to deliver on buffer establishment in urban sector. The VDOF will work with urban localities within the watershed to discuss barriers and needs to ensure urban canopy retention and establishment. Increases in WQIF money received will be used to administer the “Trees for Clean Water” grant program. VDOF will develop a matrix to realize effectiveness of “Maturity Measurements” concept. Continue to utilize community revitalization projects, raise citizen awareness and educational opportunities through outreach efforts and partner projects.	Dec. 31, 2021	Trees for Clean Water, VEE Middle James River Watershed grant, CBP, USFS Chesapeake Watershed Forestry Program
F10	WIP Initiative # 36, 37	VDOF	Improve technical assistance, collaboration and oversight of stream protection projects. Pursue funding for a Watershed Program Manager for Chesapeake Bay Initiatives. Increase riparian forest buffers, urban tree canopy, urban stormwater credit practices, develop BMPs for mitigation of concentrated flows, seek crediting program for rural and urban forestland owners plan development and ensure crediting for Green Infrastructure practices and plans. Develop a Watershed Prioritization tool to target specific areas of need within VDOF Work Areas to drive implementation of projects.	2020-2021	DEQ
F11	WIP Initiative # 37	VDOF	Urban Tree Canopy Program – Develop and provide a tree tracking platform to record and report on tree planting projects using data expected to be available to Chesapeake Bay	2020-2021	USFS

			jurisdictions through Chesapeake Conservancy Cooperative Agreement with federal government.		
F12	WIP Initiative # 37	VDOF	Tree Planting Forest Canopy – Utilize Green Infrastructure plans, Urban Forest Management Plans and institute the USFS Tree Canopy Analysis and Tree Inventory programs to develop a matrix to focus on Maturity Measurement protocols.	Dec. 31, 2021	Trees for Clean Water, VEE Middle James River Watershed grant, USFS, CBP
F13	WIP Initiative # 38	VDOF	<p>The Secretaries of Agriculture and Forestry and Veterans and Defense Affairs in partnership with the Governor’s Special Assistant for Coastal Adaptation and Protection, the Commonwealth’s military installations, local governments, and NGOs representing conservation, farming, forestry, private landowners and others are heading a geographically diverse partnership to seek a Sentinel Landscape designation in 2021 from the federal government encompassing much of the eastern portion of the Commonwealth. The Department of Forestry has been designated the lead agency responsible for the effort.</p> <p>The federal Sentinel Landscapes Partnership initiative was created to sustain military readiness, reduce the effects of incompatible development around military installations, conserve working forests and agricultural lands and protect wildlife habitat by focusing on areas where these priorities overlap. The military, federal agencies, including the Departments of Defense, Agriculture and the Interior (DoD, USDA and DOI), state governments, NGOs, and other partners coordinate their conservation and working lands programs in support of ranching, farming, forestry, and conservation practices compatible with the military installations in partnership with the landowners in the landscape.</p>	2020-2021	United States Department of Defense (DOD), U.S. Department of Interior (DOI), USDA, U.S. Bureau of Land Management (BLM), non-governmental organizations (NGOs), conservation partners
F14	WIP Initiative # 39	VDOF	Encourage Tree Conservation. Review existing legislation. Work with localities to potentially enhance state code to reflect the benefits of conserving trees that provide environmental benefits. Watershed wide and state wide meetings to be held to	2020-2021	

			determine barriers to Tree Conservation in urbanized and urbanizing areas of Commonwealth.		
Multiple Sectors – WIP Chapter 7 Initiatives					
M1	WIP Initiative # 1	DEQ	Implement enhancements to BMP Warehouse system to facilitate verification. Update and deliver training module following system upgrades. Continue working with implementation partners to ensure complete and accurate reporting.	Dec. 31, 2020	CBRAP
M2	WIP Initiative # 2	DEQ / OSNR	<p>Conduct a series of facilitated discussions with the Secretary of Natural Resources' (SNR) Chesapeake Bay Preservation Act (CBPA) Extension Work Group, to consider broadening application of the CBPA west of Tidewater Virginia across the entire Bay Watershed.</p> <p>Revise CBPA regulations to implement “(vi) <i>coastal resilience and adaptation to sea-level rise and climate change</i>” pursuant to House Bill 504.</p>	<p>Jun. 30, 2020</p> <p>https://lis.virginia.gov/cgi-bin/legp604.exe?201+ful+HB504ER2</p>	Three mtgs. held from Jul. – Oct. 2019; provided info on CBPA and Regulations; heard from localities now administering CBPA and several that voluntarily implemented elements of the CBPA in the headwaters area. SNR closed Oct. mtg. with expectation to not propose any legislation for 2020 G.A.; likely to continue discussions with a revised Work Group that will focus on enhancements to existing program and explore ways to promote adoption of CBPA provisions that make sense for water quality protection and other co-benefits.
M3	WIP Initiative # 3	DEQ / OSNR	Develop state lands data layer and determine reductions required. Establish state lands WIP development team. Final state lands WIP will be completed no later than 2021.	2020-2021	CBIG, CBRAP

M4	WIP Initiative # 4	Department of Game and Inland Fisheries (DGIF)	Provide technical assistance to public and private landowners, impacting wetlands through management, enhancement or restoration.	Dec. 31, 2021	Game Protection Fund; Virginia Migratory Waterfowl Stamp Fund; USFWS Wildlife Restoration program
M5	WIP Initiative # 4	DGIF	Develop and implement wetland restoration and/or enhancement projects on DGIF lands.	Dec. 31, 2021	Game Protection Fund; Virginia Migratory Waterfowl Stamp Fund; USFWS Wildlife Restoration program; other competitive grant programs
M6	WIP Initiative # 4	DGIF	Collaborate with partners to secure \$2,000,000+ in new funding to support wetlands acquisition, enhancement, or restoration projects.	Dec. 31, 2021	Competitive grants (e.g., Coastal Wetlands Conservation Act grants, North American Wetlands Conservation Act grants, VEE), non-governmental match
M7	WIP Initiative # 4	DGIF	Leverage DGIF's Virginia Migratory Waterfowl Stamp Fund competitive grant program to fund 6 projects that restore or enhance wetlands through collaborations with 5 unique non-governmental partners.	Dec. 31, 2021	Virginia Migratory Waterfowl Stamp Fund; non-governmental partner match
M8	WIP Initiative # 4	DGIF	Provide 500 hours of coordination to state, regional and national wetlands and associated species conservation planning efforts, including Phase III WIP, Atlantic Coast Joint Venture, North American Waterfowl Management Plan, Virginia Wildlife Action Plan, U.S. Shorebird Conservation Plan, and North American Waterbird Conservation Plan, impacting of wetlands via acquisition, enhancement or restoration.	Dec. 31, 2021	Game Protection Fund; Virginia Migratory Waterfowl Stamp Fund; USFWS Wildlife Restoration grant; competitive grants; partner match
M9	WIP Initiative # 5	DEQ	Continue work with the Bay Program through the Watershed Technical Workgroup to seek approval of methods to account for Bay nitrogen reductions associated with actions to reduce air emissions.	Dec. 31, 2020	CBRAP

M10	WIP Initiative # 8	DEQ	Coordinate with Virginia Tech researchers to install and evaluate the performance of bioreactors to reduce legacy nitrogen loads from springs.	Dec. 31, 2020	CBIG, CBRAP
M11	WIP Initiative #10	DEQ / OSNR	The Commonwealth, in consultation with stakeholders, will consider options available under the Clean Water Act to apply to the Administrator of the EPA for a No Discharge Zone (NDZ) for all or portions of the Chesapeake Bay mainstem and its tributaries, including evaluating whether or not state legislative changes may be required to facilitate such an application, and identifying funding needs and sources.	Dec. 31, 2021	
M12	WIP Initiative # 11	Virginia Marine Resources Commission (VMRC)	<p>Work with federal and non-federal partners to set tributary-specific oyster restoration goals and develop plans describing how these tributaries will be restored for each of the Virginia tributaries slated for large-scale oyster restoration as part of the 2014 Chesapeake Bay Watershed Agreement (Lafayette River, Lynnhaven River, Piankatank River, Lower York River, and Great Wicomico River). Continue on water construction to complete the established restoration goals in these five tributaries and assist in the coordination of other partners planned restoration projects. Maintain, monitor, expand, and continue to protect past and ongoing restoration efforts throughout Virginia.</p> <p>Seek additional state capital funding for oyster restoration.</p>	<p>Restoration goals set and restoration plan developed in all five tributaries by Jun. 1, 2020.</p> <p>Ensure the protection, maintenance and expansion of restoration efforts through 2025 and beyond.</p> <p>Budget target date: Jul. 1, 2020</p>	<p>Restoration goals have been set in the Lafayette, Lynnhaven, Piankatank and Lower York. Restoration plans have been completed in the Lafayette, Lynnhaven, and Piankatank. On water restoration construction is completed in the Lafayette. On water restoration is underway in the Lynnhaven, Piankatank and Lower York.</p> <p>Funding: state funds, federal grants (National Oceanic and Atmospheric Administration)</p> <p>State budget information can be found on the Virginia Legislative Information System website.</p>

M13	WIP Initiative # 12	DCR is the lead, supported by Department of Historic Resources (VDH), DGIF, VDOF, Virginia Outdoors Foundation (VOF)	<p>Update the ConserveVirginia model to include a water quality layer that will identify highest non-point loadings for N, P and S that would be reduced if the property was subject to BMPs and minimum conservation criteria as set forth in the updated Virginia Land Conservation Foundation (VLCF) grant manual.</p> <p>Conduct VLCF and Land and Water Conservation Fund (LWCF) grant rounds, scoring projects using ConserveVirginia.</p> <p>Continue to use ConserveVirginia to target state funded acquisitions and mitigation.</p>	<p>Spring 2020</p> <p>Fall 2020, Fall 2021</p> <p>Ongoing</p>	
M14	WIP Initiative # 46	DEQ	Establish long-term partnerships with local Planning District Commissions; execute grant contract with 15 Bay watershed PDCs to transition from planning to implementation, building on the momentum gained through the local engagement process for WIP III development. Work includes continued support for the PDCs to engage localities, regional and state partners regarding Bay WIP III programmatic actions and implementation activities. Training will be provided on available grant programs, and using Bay Program tools for BMP targeting to help inform PDC and local government decision making on BMP implementation.	Dec. 31, 2020, Dec. 31, 2021	Scope of work being finalized for each PDC to assist localities in their region, so non-regulated developed areas can explore ways to install identified BMPs and establish long-range programs for implementing the Phase III WIP recommendations. Approximately \$52,000/PDC is being distributed in pass-thru funds from the CBRAP grant.
M15		OSNR / Special Assistant for Coastal Adaptation and Protection	Complete Initial Coastal Resilience Master Plan “Phase 1”. This work supports WIP III implementation through emphasis on identifying and prioritizing natural and nature based features as a priority, based on analysis of actions and projects implemented or underway by planning district and regional commissions, localities and other stakeholder entities. It will focus on developing methods to further prioritize within the natural and nature-based features (NNBF) category to focus on those areas with the most potential and need for restoration, and as well as	Jul. 1, 2020	The first edition or phase of the Coastal Master Plan will focus on setting the stage for Virginia’s Coastal future, defining the threat, identifying actions ongoing in Virginia’s localities and planning district and regional commissions, addressing

			support for water management and best management practices and the co-benefits between them of ecosystem services and flooding protection.		floodplain and dam safety requirements, making recommendations to correct identified gaps and needs, examining anticipated financial impact, and defining goals and objectives to work through 2021. Will include public comments from planning districts/localities, state agencies, and federal partners.
M16		OSNR / Special Assistant for Coastal Adaptation and Protection	Initiate strategy development for Full Coastal Study based on recommendations and gaps from Coastal Master Plan Phase 1. Emphasize, need to identify and understand critical and vulnerable infrastructure across Coastal Virginia to develop evolutionary planning process and funding strategy to adapt and protect Virginia's Coast. Strategy will incorporate other ongoing coastal study efforts across coastal Virginia and include alignment with WIP III objectives, NNBF prioritization, co-benefit and ecosystem service prioritization, collaborative federal, state, local actions, and environmental equity.	Dec. 31, 2021	State agencies, Commonwealth Center for Recurrent Flooding Resiliency (CCRFR), other academic institutions, Virginia Coastal Zone Management (VCZM), business and NGO community, PDCs, regional commissions, localities, U.S. Army Corps of Engineers (USACE), federal, state and local partners State Funds

M17		OSNR / Special Assistant for Coastal Adaptation and Protection	Develop plan for and draft Virginia Coastal Master Plan Phase 2. This expanded plan will include case studies and focus more on gaps identified in the first plan, plus outline a framework for state planning for coastal resilience for the future, in order to support outcomes of the Full Coastal Study. Work will align with and support WIP III actions and intent to encourage and prioritize green infrastructure, NNBF, ecosystem services, as a priority to prepare, protect and adapt Virginia's coastal region and impacted watersheds.	Dec. 31, 2021	State agencies, CCRFR, other academic institutions, business and NGO community, VCZM, PDCs, localities, USACE, federal partners State Funds Plan will expand on and address gaps, recommendations and objectives identified in Phase 1 of the Master Plan.
M18	Multiple WIP Initiatives	DEQ, DCR, VDACS, VDH, VDOF, OSNR, OSaG&F, Office of Secretary of Human and Human Resources	Pursue additional state agency staff to implement multiple WIP initiatives.	Jul. 1, 2020	State budget information can be found on the Virginia Legislative Information System website .
Trading and Offsets					
T1		DEQ	Publish annual watershed general permit nutrient loads report.	Apr. 1, 2020, Apr. 1, 2021	
T2		DEQ	Publish annual watershed general permit trades report.	Jul. 1, 2020, Jul. 1, 2021	
Reporting, Verification and Accountability					
R1		DEQ/DCR	Update BMP Verification QAPPs annually and submit to EPA for approval.	Dec. 1, 2020, Dec. 1, 2021	
R2		DEQ	Submit 2018-2019 Milestone Final Progress Report to EPA.	Jan. 15, 2020	
R3		OSNR	Submit the Annual Chesapeake Bay and Virginia Waters Clean-Up Plan Report for the Governor and Virginia General Assembly.	Nov. 1, 2020, Nov. 1, 2021	

R4		DEQ	Submit Annual Implementation Progress to EPA.	Dec. 1, 2020, Dec. 1, 2021	
R5		DEQ	Semi-Annual Reports for Chesapeake Bay Regulatory and Accountability Program (CBRAP) and Chesapeake Bay Implementation Grant (CBIG) contracts submitted to EPA.	Jan. 15, 2020, Jul. 15, 2020, Jan. 15, 2021, Jul. 15, 2021	
R6		DEQ	Proposed annual Work Plans for Chesapeake Bay Regulatory and Accountability Program and Chesapeake Bay Implementation Grant contracts submitted to EPA.	Feb. 15, 2020, Feb. 15, 2021	
R7		DCR	Conduct field inspections to verify agricultural BMPs and report findings.	Ongoing	CBRAP, State Funds
R8	WIP Initiative # 33	VDACS	Enhance verification of BMPs implemented as a result of Agricultural Stewardship Act (ASA). Contingent on receiving additional funding and full-time equivalents (FTEs), VDACS will increase staffing levels to assist with the tracking and verification of BMPs implemented to resolve ASA complaints. Additional resources are needed to keep up with the verification schedule necessary to ensure those BMPs are accounted for in the Bay Model.	Dec. 31, 2021	State Funds Contingent upon funding.
R9	WIP Initiative # 42	VDACS	Contingent on receiving additional funding and full-time employees (FTEs), VDACS will create a position to audit turf fertilizer application records for contractor-applicators, state agencies, localities, and other government agencies.	Dec. 31, 2021	State Funds Contingent upon funding.
R10	WIP Initiative # 42	VDACS	VDACS will update the current Turf Fertilizer Reporting system to include a function for assisting with auditing a minimum of 10% of the reported acres annually.	Dec. 31, 2021	CBRAP - WIP Assistance Grant
R11	WIP Chapter 5.2	DEQ	Append the Final Nutrient and Sediment Targets to the Phase III Watershed Implementation Plan. The final targets will be added to the Final Phase III WIP Tables spreadsheet available at: https://www.deq.virginia.gov/Programs/Water/ChesapeakeBay/ChesapeakeBayTMDL/PhaseIIIWatershedImplementationPlan/PhaseIIIWatershedImplementationPlan.aspx	Jul. 1, 2020	

R12	WIP Initiative # 1, WIP Chapter 10.2	DEQ	Develop and deploy a verification SOP template for use by implementation partners to satisfy Verification Program Plan requirements.	Dec. 31, 2021	
James River Phased Implementation / Chlorophyll Study					
J1	p. 137	DEQ	Complete rulemaking for chlorophyll criteria amendments and submit for EPA review/approval and effective date.	Jan. 6, 2020	State Water Control Board approved final amendments at their Jun. 27, 2019 meeting; Executive Review completed Aug. 26, 2019. Final public review period ended Oct. 16, 2019. Amendments submitted to EPA in Nov. 2019; approved by letter dated Jan. 6, 2020. Revised criteria now effective for regulatory purposes.